

UNION AND AMERICAN.

(Advertisements under this head will be charged TEN CENTS per line for each insertion.)

WANTED.

WANTED—Wheat and corn, for which the highest cash price will be paid at Cedar Street Mills, TENNESSEE. Apply to J. H. BERRY, at Cedar Street Mills, Tenn.

WANTED—Furniture, to have charge of a furniture store, in the city of Nashville, Tenn. Apply to J. H. BERRY, at Cedar Street Mills, Tenn.

WANTED—Young man, with some capital, can obtain situation and good salary. For particulars, address Capital, this office.

FOR SALE.

FOR SALE—A set of bedroom furniture, including chairs, carpets, etc., will be sold at a low price. Apply to J. H. BERRY, at Cedar Street Mills, Tenn.

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BOARDING.

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LOST.

LOST—A Jet and Gold Breast Pin. The owner will be suitably rewarded for returning it to 35 Cedar Street.

FOUND.

FOUND—A Lady's Jet Breast Pin was found on Cherry Street near Church and Union Streets. The owner can be reached by calling at this office, proving property and having it returned to her.

FARM AND GARDEN.

CABBAGE WORMS.

Sprinkling cabbage with fine salt when the dew is on is a good remedy for cabbage worms. A dust of black or red pepper is sometimes used with effect to destroy or repel them. Poultry in a garden often render a valuable service in gathering worms, bugs and fleas.

DESTROYING THE ONION MAGGOT.

Onions are one of the best crops to raise in Tennessee, but liable to be injured if not ruined by the onion maggot. A merchant of Fort Plain, New York, finds time to raise onions as a specialty from black seed, drilled in rows thirteen inches apart. He says his staple would be a failure if he did not keep off the parent of the maggot by dusting the onion when small with air-sprayed lime, say a peck of lime to a row of onions seventy yards long. If hard rains wash the lime into the earth repeat the application. It acts as a fertilizer, and the addition of plaster or wood ashes is an improvement.

GARDENS MUCH TROUBLED WITH INSECTS.

Gardens much troubled with insects should have a dressing of salt, and all trash should be collected often and burnt. War on insects must assume a more resolute and industrious character. The Fort Plain man thought he might kill his fine onions, (admired by his neighbors, as reported in the Country Gentleman), but something had to be done to destroy their enemies, and that quickly. Lime saved the crop.

COMPOSTING SUPERPHOSPHATES.

Prof. E. N. Horsford, of Cambridge University, Mass., in a letter to the Boston Cultivator, says:

The advantages of composting an ammoniated superphosphate are matters of experimental demonstration, which Mr. Wilson has illustrated in the use of the phreaticum with which we are familiar in the phenomena of fermentation. He found, for example, that four equal parts of ground bone, fed—bone with one part of stable manure, two with 250 pounds of ammoniated superphosphate, and three and four with a compost six months old of 250 pounds of ammoniated superphosphate, uniformly distributed over the two plots—that the united product from three and four was in round numbers twice that from one and two together.

In other words, by composting, the practical value of each constituent was doubled.

It is not necessary that the organic constituents should be stable manure, while on many accounts the stable product is best, but any organic refuse of any kind, will work with almost equal efficacy.

Doubling the value of a fertilizer by composting, or any other preparation, is a matter worth investigating by every practical farmer. If the solubility of the mineral or organic elements is increased by the manipulation, that will explain the gain in fertilizing power by six months' composting.

In the case under consideration, Prof. Horsford ascribes the improvement mainly to the action of micro-organisms developed in the compost heap during decay. As this is a new view of an important agricultural subject, and Prof. H. stands high as a chemist and scientist, we shall endeavor to make his statement and views plain to the reader. He remarks in the compost, the organic and mineral matters become to great fineness. "On examination with the microscope the finely divided material is found to be largely made up of animal and vegetable organisms which have flourished on the organic matter, the ammonia and the phosphates, as Pasteur has shown the yeast plants do." From the above view it follows that organic life not only co-operates in all fermentation, as in changing starch and sugar into beer and alcohol, and alcohol into vinegar, but also plays an important part in the decay and putrefactive process of the dung-heap. The microscope is constantly enlarging the domain of active vitality as we see by man.

THE FIELD QUESTION.

The *Prairie Farmer* has a leading article on the "field question"; and the almost unprecedented drought during the last three months in large portions of the West. A correspondent draws this gloomy sketch of Kansas:

"The calamities occasioned by the long drought and the intense heat are very great. Herbs and plants have languished, the earth is dried up, and we are nearly stifled with burning dust. The waters have become turbid, and form a fatal drink for our poor, starving, drooping herds. Heat and putrefaction prodigiously multiply insects, which destroy everything, eat up the produce of the fields, and if they die to-day, revive to-morrow in new generations. Famine, that terrible precursor of death, marches with lusty strides, and what we are to do the coming winter we cannot see. Everybody will try to leave, but there are some who cannot leave, for they have nothing to go with."

We are not so bad off in Tennessee;

WHO IS RESPONSIBLE?

A Representative Republican Journal On the Crisis in the South.

Facts Showing that the Negroes Mean to Force a War of Races.

The Albany Journal says of the Southern Democracy: "The proof of a purpose to provoke and press the race-issue is rapidly accumulating."

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